

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET
(pursuant to NAC 445A.236)

Permittee Name: Treasure Island Corporation
Treasure Island Hotel Casino
3300 Las Vegas Boulevard South
Las Vegas, Nevada 89177

Permit Number: NEV92040

Description of Discharge

Location: Treasure Island Water Treatment Facility is located at the Treasure Island Hotel/Casino property at 3300 Las Vegas Boulevard South, in Las Vegas.

Characteristics: The Treasure Island gray water treatment system consists of pre-screening, charcoal and sand media filtration, chemical injection (polymer to reduce membrane fouling), acid/caustic treatment for pH adjustment, disinfection using chlorine, and reverse osmosis. The (R.O.) treatment is designed to treat the high Total Dissolved Solids (TDS) laden shallow groundwater, from 4,000 mg/L to 5,800 mg/L to an average of about 100 mg/L., and is blended with the grey water as make up water.

Flow: The design flow for the facility is 0.230 MGD. Flow is measured by a continuous flow meter. Actual flows have recently averaged from .011 MGD to .0185 MGD depending on operating hours and conservation measures.

Quantities: Total Coliform limits are: 2.2/100 ml MPN/CFU 30-day average, and 23/100 ml MPN/CFU daily maximum; Total Dissolved Solids mg/L: Monitor only.

General: The treatment plant treats high TDS groundwater (about 60%) with grey water from the hotel showers, sinks, water fountains and laundry(40%) and is screened and settled in a tank prior to pretreatment with sodium hypochlorite and a polymer(coagulant) to treat for organics. The water is then directed through four multi-media filters (sand/charcoal),with chemical injection for pH adjustment, prior to the Reverse Osmosis system to lower the TDS to approximately 100 mg/L before UV disinfection. The product water is then available for use in irrigation or for water features at the Treasure Island or as make up water for the Mirage "Volcano Lake" and other hotel landscape irrigation. The treated water is swimming pool quality water for Buccaneer Bay, allowing total body contact. The reject and filter backwash water, the settled sludge, any surplus water, and or water drained from the Buccaneer Bay is discharged into the Clark County Sanitation

District sewer under a pretreatment disposal permit. The discharge will not have any adverse affects on groundwater.

Receiving Water Characteristics: Disposal of treated water (effluent) is to groundwaters of the State via land application for irrigation at both the Treasure Island and the Mirage properties, and via evaporation in the water features at the two Hotel properties. The shallow aquifer is made up of nuisance water which is high in TDS. TDS is lower in the winter and higher in the summer months, with average values of about 4000 mg/l. Groundwater is pumped from the valet sump and three onsite wells.

Procedures for Public Comment: The Notice of the Division's intent to reissue a permit authorizing the facility to discharge subject to the conditions contained within the permit, is being sent to the **Las Vegas Review-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice, by May 28, 2004. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the regional administration or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination The Division has made the tentative determination to reissue the proposed permit for a five year period.

Schedule of Compliance and Special Conditions

An updated Operations and Maintenance (O & M) Manual shall be submitted to the Division for review and approval on or before December 30, 2004.

Prepared by: Icyl C. Mulligan
March, 2004